



KGF (FGF-7) Mouse, E. coli Recombinant Protein

Product Data Sheet

Cat. No.:	A37210002	A37210010	A37211000
Size:	2 µg	10 µg	1 mg

Description:

Our bioactive *KGF (FGF-7) Mouse, E. coli Recombinant Protein* is a single, non-glycosylated, polypeptide chain containing 164 amino acids and has a molecular mass of 18.9 kDa. The KGF is purified by proprietary chromatographic techniques.

Summary:

Keratinocyte growth factor (KGF), also known as fibroblast growth factor 7 [FGF-7] is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. KGF is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.

Other Names:

Murine KGF, Keratinocyte growth factor, Murine FGF-7, Mouse FGF-7, FGF7, FGF-7, Fibroblast growth factor 7, Heparin-binding growth factor 7, HBGF-7

Source:

E. coli

Purity:

Greater than 95.0% as determined by analysis by HPLC and SDS-PAGE.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder.

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**Formulation:**

The protein was lyophilized from a concentrated (1 mg/ml) solution containing 20mM Phosphate buffer pH-8 and 0.1M NaCl.

Reconstitution:

It is recommended to reconstitute the lyophilized KGF in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Biological Activity:

The ED₅₀, calculated by the dose-dependent stimulation of KGF-responsive BaF3 indicator cells (measured by 3H-thymidine uptake) is < 10 ng/ml corresponding to a specific activity of 100,000 Units/mg.

Amino Acid Sequence:

MCNDMSPEQT ATSVNCSSPE RHTRSYDYME GGDIVRRLF CRTQWYLRID KRGKVKGTQE MKNSYNIMEI
RTVAVGIVAI KGVSEYYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKWTHSG GEMFVALNQK
GIPVKGKGTK KEQKTAHFLP MAIT.

Shipping:

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Stability:

Lyophilized KGF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution, KGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.**

Usage:

This product is intended for **Laboratory Research Use Only**. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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